



US005878925A

**United States Patent** [19][11] **Patent Number:** **5,878,925****Denkins et al.**[45] **Date of Patent:** **Mar. 9, 1999**[54] **DRYWALL JOINT COMPOUND PUMP  
WORKSTATION**

5,390,825	2/1995	Rockel	222/608
5,544,791	8/1996	Chih	222/608
5,570,953	11/1996	DeWall	366/10

[75] Inventors: **Jeffrey L. Denkins; Steven J.  
Mondlock**, both of Kaukauna, Wis.

Primary Examiner—Gregory L. Huson

Assistant Examiner—Keats Quinalty

Attorney, Agent, or Firm—Andrus, Scealess, Starke &  
Sawall[73] Assignee: **Apla-Tech, Inc.**, Kaukauna, Wis.[21] Appl. No.: **877,466**[57] **ABSTRACT**[22] Filed: **Jun. 17, 1997**[51] **Int. Cl.**<sup>6</sup> ..... **A01C 35/00**; A62C 15/00;  
A62C 11/00; B05B 9/04[52] **U.S. Cl.** ..... **222/608**; 222/609; 239/154;  
239/321; 239/329; 239/331[58] **Field of Search** ..... 239/154, 321,  
239/329, 331; 222/608, 609[56] **References Cited****U.S. PATENT DOCUMENTS**

2,596,074	5/1952	Hawes	239/331
2,815,142	12/1957	Ames	216/25
4,327,845	5/1982	Keyes et al.	239/331
4,440,410	4/1984	Bradshaw	280/47.26
4,504,293	3/1985	Gillingham et al.	55/350
4,580,749	4/1986	Howard	248/161
5,154,317	10/1992	Roppolo, III	222/608
5,279,700	1/1994	Retti	156/578
5,328,096	7/1994	Stenge et al.	239/123
5,349,992	9/1994	Gallo et al.	222/608
5,366,309	11/1994	Springall	222/608

A portable drywall joint compound pump workstation supplies joint compound to a workstation outlet that is conveniently located. The workstation includes a joint compound supply reservoir having an open top, a pump that pumps joint compound from the supply reservoir, a portable cart that supports the supply reservoir and the pump, and a removable transport tube that feeds joint compound from the pump to the workstation outlet. With the transport tube in place the workstation outlet is held in a relatively stable position in the vicinity of the open top of the supply reservoir. The pump is located below the joint compound supply reservoir, and is a gravity-fed, pneumatic diaphragm pump. The pump inlet is connected to the bottom of the supply reservoir and the pump outlet is located beneath the pump inlet. The pump is thus self-draining. A compressed air manifold assembly including a plurality of compressed air supply ports is provided. A number of accessories are also provided to facilitate the handling of drywall joint compound, and on-site rinsing and cleaning of the workstation and various drywall finishing tools.

**24 Claims, 7 Drawing Sheets**